Photovoltaics

Solutions for rooftop photovoltaic systems

Products for efficient system installation in commercial and residential buildings

Weidmüller

Recommended solutions found quickly

01 PV Next Combiner Box

02 PV Next Fireman Switch

03 PV Protect Surge Protection

04 AC SPD-Box

05 PV Accessories

	Surge Protection	Combining of PV strings	Commercial	Private	
DC	✓	✓	✓		Page 4
DC	✓	✓			Page 10
DC				✓	Page 12
AC			✓	✓	Page 14

01

PV Next Combiner Box

Easy, fast, and safe wiring of photovoltaic systems

With PV Next, Weidmüller offers the world's first combiner box concept based on a standardised printed circuit board design. This concept is not only very robust, but also reduces the use of materials such as copper and plastic by 25%. At the same time, the design enables an easy, fast and safe installation. The integrated PUSH IN technology, for example, reduces installation times and minimises the risk of errors and the resulting consequences.

Many different variants for commercial and residential buildings from stock

PV Next is protecting the PV system again over-voltages and reverse currents and also offers the possibility to combine strings. The various designs are done to protect all string inverters available in the European market.

For more information, visit our website:
www.weidmueller.com/pvnext

Suitable for commercial and residential buildings.

Standardised printed circuit board design – one design for all applications

Feedback contact provides continuous information about the status of the surge arrester

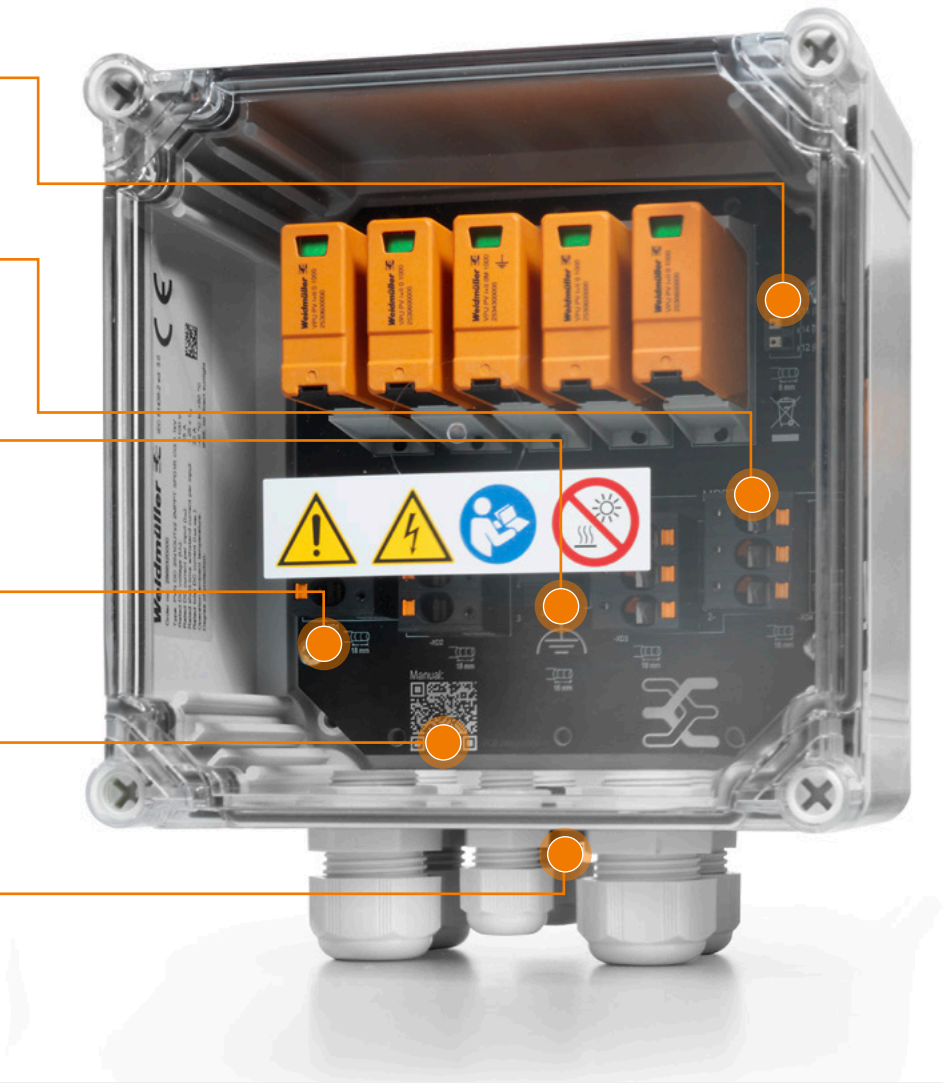
String lines can be connected without fire risk with the safe PUSH IN connection

Ground conductor can be connected easily and without bending

Recurring string marking according to standard

Manual can be accessed anytime and anywhere via QR code

Equalizing valve protects against condensation in the housing



The most innovative concept for string inverters

Tested according to IEC-61439-2 standard in accredited laboratory

High input current even at 50°C ambient temperature

3D data available online

Certified according to protection class IP65

Combination of strings saves time and wiring

Suitable variants for every installation type

The right combiner box for your inverter type in just three steps

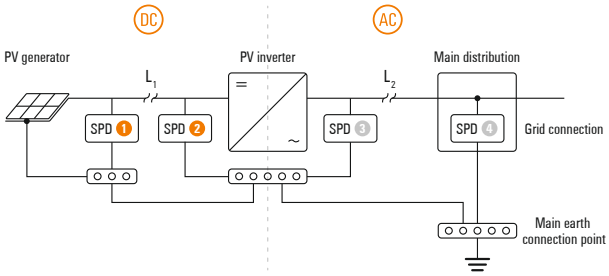
1. Select your inverter type

Open our online selector via the QR code or short link to the right. Select the manufacturer and type of your inverter here. You will then receive a pre-selection of suitable products for your PV installation.

Here you can access the online selector, which provides the basis for your selection:
www.weidmueller.com/pvselector

2. Determine the standard-compliant surge protection

Answer the questions in the table below from left to right to determine what surge protection is needed on both the DC and AC sides for your installation. The diagramm maps:
(1) at the entry point of the PV cables into the building (inside or outside), (2) at or in the inverter (DC side), (3) at or in the inverter (AC side), (4) in the main distribution. If the cable length is more than 10 m, you need an additional overvoltage protection according to the standard EN 51643-32. Our PV Next combiner boxes protect the DC side of the installation. That's why they are highlighted here.



Question 1: External lightning protection system present?	Question 2: Separation distance maintained?*	Question 3: Cable length L_1 larger than 10 m?	Question 4: Cable length L_2 larger than 10 m?	DC Installation locations SPD 1	DC Installation locations SPD 2	AC Installation locations SPD 3	AC Installation locations SPD 4
no	-	yes	yes	Type II DC	Type II DC	Type II AC	Type II AC
no	-	no	yes	-	Type II DC	Type II AC	Type II AC
no	-	yes	no	Type II DC	Type II DC	-	Type II AC
no	-	no	no	-	Type II DC	-	Type II AC
yes	yes	yes	yes	Type II DC	Type II DC	Type II AC	Type I AC
yes	yes	no	yes	-	Type II DC	Type II AC	Type I AC
yes	yes	yes	no	Type II DC	Type II DC	-	Type I AC
yes	yes	no	no	-	Type II DC	-	Type I AC
yes	no	yes	yes	Type I DC	Type I DC	Type I AC**	Type I AC
yes	no	no	yes	-	Type I DC	Type I AC**	Type I AC
yes	no	yes	no	Type I DC	Type I DC	-	Type I AC
yes	no	no	no	-	Type I DC	-	Type I AC

*Between PV installation and external lightning protection, according to standard EN 51643-32.

**If the inverter and the main distribution board are connected to the same grounding busbar via a grounding cable whose length does not exceed 0.5 m, no SPD is required at installation location "3".

3. Select your preferred connection type

All PV Next variants are available with WM4 C ("Weidmüller connector"), MC4 EVO2 ("Stäubli connector") or CG ("classic cable gland") connection types. The housing interior has practical 16 mm² PUSH IN connections. Select the product variant with your preferred connection type in the selector.

Now that you have found the right product, you can send us your product request directly from the selector or order the part number from your trusted dealer.

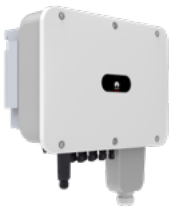
Examples of the perfect combination*

Here you will find common combinations for inverters from SMA, Fronius, SolarEdge and Huawai. You will find many other inverter manufacturers and types in our online selector.

SMA Sunny Tripower CORE1
6MPP, 2IN

Fronius Symo GEN24 Plus
2MPP, 2IN/1IN

SE3K
1MPP, 2IN



Huawei SUN2000-30/36/40KTL-M3
4MPP, 2IN

PV Next
Order No. 2737620000

PV Next
Order No. 2866340000

PV Next
Order No. 2890560000

PV Next
Order No. 2737610000

*Variants for type I/II and WM4C connector; for further variants, go to our homepage at **www.weidmueller.com/pv-perfect-match.**

PV Next combiner boxes for commercial PV systems

Type	MPP	Inputs per MPP	Outputs per MPP	Surge protection requirement class	Connection	Qty.	Order No.
No fuse holder, no switch disconnector							
PVN DC 3I 3O 2MPP SPD1R CG 11	2 MPP	3 inputs	3 outputs	Type: I / II	Cable gland, PUSH IN connection	1	**2890570000**
PVN DC 3I 3O 2MPP SPD1R WM4 11	2 MPP	3 inputs	3 outputs	Type: I / II	Connector, WM4C	1	**2890450000**
PVN DC 3I 3O 2MPP SPD1R EVO 11	2 MPP	3 inputs	3 outputs	Type: I / II	Connector, MC4-Evo 2	1	**2890330000**
PVN1M3I9SXFXV100TXPX10	3 MPP	3 inputs	3 outputs	Type: I / II	Cable gland, PUSH IN connection	1	**2683130000**
PVN1M3I9SXFXV101TXPX10	3 MPP	3 inputs	3 outputs	Type: I / II	Connector, WM4C	1	**2683190000**
PVN1M4I8SXFXV100TXPX10	4 MPP	2 inputs	1 output	Type: I / II	Cable gland, PUSH IN connection	1	**2737610000**
PVN1M4I8SXFXV101TXPX10	4 MPP	2 inputs	1 output	Type: I / II	Connector, WM4C	1	**2737600000**
PVN1M6I12SXFXV100TXPX10	6 MPP	2 inputs	1 output	Type: I / II	Cable gland, PUSH IN connection	1	**2737630000**
PVN1M6I12SXFXV101TXPX10	6 MPP	2 inputs	1 output	Type: I / II	Connector, WM4C	1	**2737620000**
PVC 2I 1O 10MPP SPD1R EVO 11	10 MPP	2 input	1 output	Type: I/II	Connector, MC4-Evo 2	1	**8000106274**
PVC 2I 2O 10MPP SPD1R EVO 11	10 MPP	2 input	2 outputs	Type: I/II	Connector, MC4-Evo 2	1	**8000107559**
PVC 2I 1O 12MPP SPD1R EVO 11	12 MPP	2 input	1 output	Type: I/II	Connector, MC4-Evo 2	1	**8000107558**
No fuse holder, with switch disconnector							
PVN DC 3I 3O 2MPP SW SPD1R CG 11	2 MPP	3 inputs	3 outputs	Type: I / II	Cable gland, PUSH IN connection	1	**2890600000**
PVN DC 3I 3O 2MPP SW SPD1R WM4 11	2 MPP	3 inputs	3 outputs	Type: I / II	Connector, WM4C	1	**2683080000**
PVN DC 3I 3O 2MPP SPD1R EVO 11	2 MPP	3 inputs	3 outputs	Type: I / II	Cable gland, PUSH IN connection	1	**2683240000**
PVN1M3I9S0FXV101TXPX10	3 MPP	3 inputs	3 outputs	Type: I / II	Connector, WM4C	1	**2683220000**
PVN1M3I9S0FXV100TXPX10	3 MPP	3 inputs	3 outputs	Type: I / II	Cable gland, PUSH IN connection	1	**2683160000**
With fuse holder, no switch disconnector							
PVN1M2I6SXF3V100TXPX10	2 MPP	3 inputs	3 outputs	Type: I / II	Cable gland, PUSH IN connection	1	**2683040000**
PVN1M2I6SXF3V101TXPX10	2 MPP	3 inputs	3 outputs	Type: I / II	Connector, WM4C	1	**2683080000**
PVN1M1I6SXF3V100TXPX10	1 MPP	6 inputs	6 outputs	Type: I / II	Cable gland, PUSH IN connection	1	**2737520000**
PVN1M1I6SXF3V101TXPX10	1 MPP	6 inputs	6 outputs	Type: I / II	Connector, WM4C	1	**2737440000**
With fuse holder, with switch disconnector							
PVN1M2I6S0F3V100TXPX10	2 MPP	3 inputs	3 outputs	Type: I / II	Cable gland, PUSH IN connection	1	**2683060000**
PVN1M2I6S0F3V101TXPX10	2 MPP	3 inputs	3 outputs	Type: I / II	Connector, WM4C	1	**2683100000**
PVN1M1I6S0F3V100TXPX10	1 MPP	6 inputs	6 outputs	Type: I / II	Cable gland, PUSH IN connection	1	**2737530000**
PVN1M1I6S0F3V101TXPX10	1 MPP	6 inputs	6 outputs	Type: I / II	Connector, WM4C	1	**2737480000**
207S0F0C15V100TXPX10PWW	1 MPP	10/8/6*	1 output	Type: I / II	Cable gland	1	**8000111135**
PV 207S0F0C15V100TA1PA10PWW	1 MPP	10/8/6*	1 output	Type: I / II	Cable gland, string monitoring	1	**8000111136**
PV 211S0F0C15V100TXPX10PWW	2 MPP	10/8/6*	1 output	Type: I / II	Cable gland	1	**8000111137**
PV 211S0F0C15V100TA1PA10PWW	2 MPP	10/8/6*	1 output	Type: I / II	Cable gland, string monitoring	1	**8000111138**
*usable inputs depend on the modules used							

PV Next combiner boxes for PV systems in residential buildings

Type	MPP	Inputs per MPP	Outputs per MPP	Surge protection requirement class	Connection	Qty.	Order No.
No fuse holder, no switch-disconnector							
PVN1M1I2SXFXV100TXPX11	1 MPP	2 inputs	1 output	Type: I / II	Cable gland, PUSH IN connection	1	**2791930000**
PVN1M1I2SXFXV101TXPX11	1 MPP	2 inputs	1 output	Type: I / II	Connector, WM4C	1	**2791920000**
PVN1M1I2SXFXV102TXPX11	1 MPP	2 inputs	1 output	Type: I / II	Connector, MC4-Evo 2	1	**2866300000**
PVN1M1I2SXFXV200TXPX11	1 MPP	2 inputs	1 output	Type: II	Cable gland, PUSH IN connection	1	**2791950000**
PVN1M1I2SXFXV201TXPX11	1 MPP	2 inputs	1 output	Type: II	Connector, WM4C	1	**2791940000**
PVN1M1I2SXFXV202TXPX11	1 MPP	2 inputs	1 output	Type: II	Connector, MC4-Evo 2	1	**2866310000**
PVN DC 3I 3O 1MPP SPD1R CG 11	1 MPP	3 inputs	3 outputs	Type: I / II	Cable gland, PUSH IN connection	1	**2890560000**
PVN DC 3I 3O 1MPP SPD1R CG 11	1 MPP	3 inputs	3 outputs	Type: I / II	Connector, WM4C	1	**2890440000**
PVN DC 3I 3O 1MPP SPD1R EVO 11	1 MPP	3 inputs	3 outputs	Type: I / II	Connector, MC4-Evo 2	1	**2890320000**
PVN DC 2IN/1OUTX2 2MPP SPD1R CG 1.1KV	2 MPP	2 inputs	1 output	Type: I / II	Cable gland, PUSH IN connection	1	**2866320000**
PVN DC 2IN/1OUTX2 2MPP SPD1R WM4C 1.1KV	2 MPP	2 inputs	1 output	Type: I / II	Connector, WM4C	1	**2866340000**
PVN DC 2IN/1OUTX2 2MPP SPD1R EVO 1.1KV	2 MPP	2 inputs	1 output	Type: I / II	Connector, MC4-Evo 2	1	**2866360000**
PVN DC 2IN/1OUTX2 2MPP SPD2R CG 1.1KV	2 MPP	2 inputs	1 output	Type: II	Cable gland, PUSH IN connection	1	**2866330000**
PVN DC 2IN/1OUTX2 2MPP SPD2R WM4C 1.1KV	2 MPP	2 inputs	1 output	Type: II	Connector, WM4C	1	**2866350000**
PVN DC 2IN/1OUTX2 2MPP SPD2R EVO 1.1KV	2 MPP	2 inputs	1 output	Type: II	Connector, MC4-Evo 2	1	**2866370000**
No fuse holder, with switch-disconnector							
PVN DC 3I 3O 1MPP SW SPD1R CG 11	1 MPP	3 inputs	3 outputs	Type: I / II	Cable gland, PUSH IN connection	1	**2890590000**
PVN DC 3I 3O 1MPP SW SPD1R WM4 11	1 MPP	3 inputs	3 outputs	Type: I / II	Connector, WM4C	1	**2890470000**
PVN DC 3I 3O 1MPP SW SPD1R EVO 11	1 MPP	3 inputs	3 outputs	Type: I / II	Connector, MC4-Evo 2	1	**2890350000**
With fuse holder, no switch-disconnector							
PVN1M1I3SXF3V100TXPX10	1 MPP	3 inputs	3 outputs	Type: I / II	Cable gland, PUSH IN connection	1	**2683030000**
PVN1M1I3SXF3V101TXPX10	1 MPP	3 inputs	3 outputs	Type: I / II	Connector, WM4C	1	**2683070000**
With fuse holder, with switch-disconnector							
PVN1M1I3S0F3V100TXPX10	1 MPP	3 inputs	3 outputs	Type: I / II	Cable gland, PUSH IN connection	1	**2683050000**
PVN1M1I3S0F3V101TXPX10	1 MPP	3 inputs	3 outputs	Type: I / II	Connector, WM4C	1	**2683090000**





More designs on request

Our portfolio protects a variety of string inverters available on the market. However, new variants come on the market regularly and sometimes you need a very special design for your application. Therefore, we have set up an efficient process that allows us to always offer the right solution in the usual quality.

Just send us your use case and requirements. We will create a custom-fit design and offer for you.

Click here to get to the contact form:
www.weidmueller.com/contact-pv

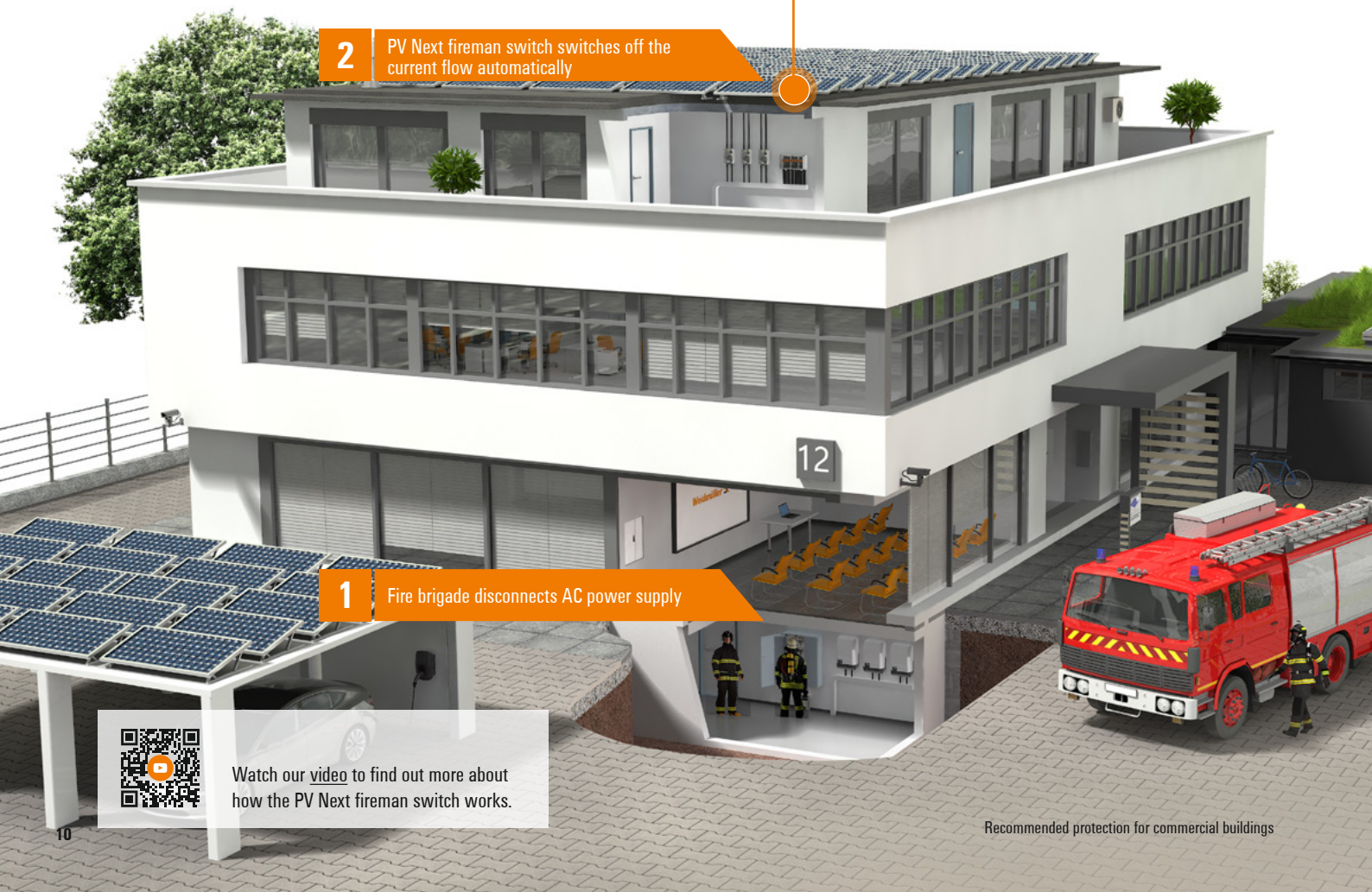
02 PV Next Fireman Switch

Switch off systems in case of fire

Rooftop photovoltaic systems require a disconnection device near the PV modules that is connected to the power supply in the house. This allows the fire brigade to carry out firefighting operations in an emergency without being put at unnecessary risk. The new PV Next fireman switch combines strings in an extremely space-saving way and can reliably disconnect them in the event of a fire. The current flow from the photovoltaic modules is interrupted as soon as the power supply inside or outside the house is switched off. This enables the fire brigade to work safely and extinguish fires more quickly. Unlike other solutions, the switch only consumes electricity during the switching process.

The PV Next Fireman Switch is also available in combination with overvoltage protection on the DC side.

For more information, visit our website:
www.weidmueller.com/pvnextfireman



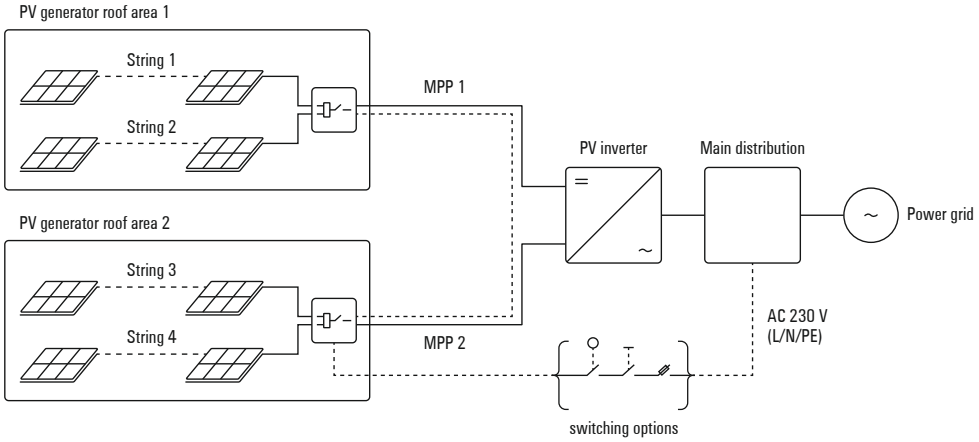
Watch our video to find out more about how the PV Next fireman switch works.

Recommended protection for commercial buildings

Your special advantages

- Fully automatic switch-on and switch-off
- Efficient combination of strings with cable savings of up to 50 %
- Simple and space-saving installation
- Energy consumption only during switch-on and switch-off
- Standard variants available from stock
- Automatic shutdown at temperatures over 100 °C
- Two functions, one compact design: variants with integrated surge protection

Possible installation scheme*



*For further installation examples and questions about standard-compliant installation, please contact us: **www.weidmueller.com/contact-pv**

1100V DC
230V AC

PV Next Fireman Switch

Type	MPP	Inputs per MPP	Outputs per MPP	Current per box	Connection	Qty.	Order No.
PVN1M1I2S1FXVX00TXPX10	1 MPP	2 inputs	1 output	50A	Cable gland, PUSH IN connection	1	**2778850000**
PVN1M1I2S1FXVX01TXPX10	1 MPP	2 inputs	1 output	34A	Connector, WM4C	1	**2778860000**
PVN1M1I2S1FXVX02TXPX11	1 MPP	2 inputs	1 output	34A	Connector, MC4-Evo 2	1	**2888520000**
PVN1M2I4S1FXVX00TXPX10	2 MPP	2 inputs	1 output	2x 50A	Cable gland, PUSH IN connection	1	**2778870000**
PVN1M2I4S1FXVX01TXPX10	2 MPP	2 inputs	1 output	2x 34A	Connector, WM4C	1	**2778880000**
PVN1M2I4S1FXVX02TXPX11	2 MPP	2 inputs	1 output	2x 34A	Connector, MC4-Evo 2	1	**2888530000**
PVC DC 2I 1O 4MPP RD WM4 11	4 MPP	2 inputs	1 output	4x 34A	Connector, WM4C	1	**8000115472**
PVC DC 2I 1O 4MPP RD EVO 11	4 MPP	2 inputs	1 output	4x 34A	Connector, MC4-Evo 2	1	**8000111429**
PVC DC 2I 1O 6MPP RD WM4 11	6 MPP	2 inputs	1 output	6x 34A	Connector, WM4C	1	**8000115473**
PVC DC 2I 1O 6MPP RD EVO 11	6 MPP	2 inputs	1 output	6x 34A	Connector, MC4-Evo 2	1	**8000111430**

PV Next Fireman Switch with SPD

Type	MPP	Inputs per MPP	Outputs per MPP	Surge protection requirement class	Connection	Qty.	Order No.
PVC DC 2I 1O 2MPP RD SPD1R WM4 11	2 MPP	2 inputs	1 output	Type: I / II	Connector, WM4C	1	**8000114374**
PVC DC 2I 1O 2MPP RD SPD1R EVO 11	2 MPP	2 inputs	1 output	Type: I / II	Connector, MC4-Evo 2	1	**8000098970**
PVC DC 2I 1O 4MPP RD SPD1R WM4 11	4 MPP	2 inputs	1 output	Type: I / II	Connector, WM4C	1	**8000115470**
PVC DC 2I 1O 4MPP RD SPD1R EVO 11	4 MPP	2 inputs	1 output	Type: I / II	Connector, MC4-Evo 2	1	**8000110665**
PVC DC 2I 1O 6MPP RD SPD1R WM4 11	6 MPP	2 inputs	1 output	Type: I / II	Connector, WM4C	1	**8000115471**
PVC DC 2I 1O 6MPP RD SPD1R EVO 11	6 MPP	2 inputs	1 output	Type: I / II	Connector, MC4-Evo 2	1	**8000111274**

More designs on request

Due to the variety of applications, we have not covered all possible fields of application for the emergency shutdown by standard variants. However, due to the modular design of the PV Next product family, we can offer you individual designs for your application at any time. Do you need a Fireman's Switch combined with a surge protection? Do you need a Fireman's Switch with more than 2 MPPs?

Just send us your use case and requirements. We will create a custom-fit design and offer for you.

Click here to get to the contact form:
www.weidmueller.com/contact-pv

03 PV Protect Surge Protection

Protect PV systems optimally against overvoltages

PV Protect is the solution for optimum protection of the inverter against overvoltages. The ready-to-connect boxes are particularly suitable for retrofitting a surge protection into an existing installation. Depending on requirements, connection is made via WM4C connectors or cable glands with convenient and reliable PUSH IN connection technology.

For more information, visit our website:
www.weidmueller.com/pvprotect

Optimal protection for residential buildings

Your special advantages

Wide range of product variants

PV Protect is available with different arrester classes (Type I/II and Type II) and rated voltages (1,000 V/1,500 V). The connection is made either via photovoltaic plug connectors or cable glands – for high flexibility.

Designed to meet various requirements

PV Protect is compact, robust, and extremely weatherproof. The housing complies with protection class IP67 and protects the electronics inside, even from harsh environmental influences.

Quick mounting

Thanks to the pre-assembled arresters, the product can be connected quickly and with little effort. The clear marking of the ports eliminates the possibility of incorrect wiring.

PV Protect

Type	MPP	Inputs pro MPP	Surge protection requirement class	Connection	Qty.	Order No.
1000 volt versions						
VPUM1I1SXFXV101TXPX10	1 MPP	1 input	Type I+II	Connector, WM4C	1	**2764140000**
VPUM1I1SXFXV100TXPX10	1 MPP	1 input	Type I+II	Cable gland, PUSH IN connection	1	**2755970000**
VPUM1I1SXFXV201TXPX10	1 MPP	1 input	Type II	Connector, WM4C	1	**2764110000**
VPUM1I1SXFXV200TXPX10	1 MPP	1 input	Type II	Cable gland, PUSH IN connection	1	**2755950000**
VPUM2I2SXFXV101TXPX10	2 MPP	1 input	Type I+II	Connector, WM4C	1	**2764150000**
VPUM2I2SXFXV100TXPX10	2 MPP	1 input	Type I+II	Cable gland, PUSH IN connection	1	**2755980000**
VPUM2I2SXFXV201TXPX10	2 MPP	1 input	Type II	Connector, WM4C	1	**2764130000**
VPUM2I2SXFXV200TXPX10	2 MPP	1 input	Type II	Cable gland, PUSH IN connection	1	**2755960000**
1500 volt versions						
VPUM1I1SXFXV201TXPX15	1 MPP	1 input	Type II	Connector, WM4C	1	**2764160000**
VPUM1I1SXFXV200TXPX15	1 MPP	1 input	Type II	Cable gland, PUSH IN connection	1	**2755990000**
VPUM2I2SXFXV201TXPX15	2 MPP	1 input	Type II	Connector, WM4C	1	**2764180000**
VPUM2I2SXFXV200TXPX15	2 MPP	1 input	Type II	Cable gland, PUSH IN connection	1	**2756000000**

Y cable / X cable

Type	Power input 1 / input 2	Power output	Stich connection	Qty.	Order No.
Y-connection cable					
PVHYW-XXW+XX06W+15	WM4C -	WM4C +	WM4C +	1	**2814180000**
PVHYW+XXW-XX06W-15	WM4C +	WM4C -	WM4C -	1	**2814190000**
PVHYM-XXW+XX06M+15	MC4 -	MC4 +	WM4C +	1	**2814200000**
PVHYM+XXW-XX06M-15	MC4 +	MC4 -	WM4C -	1	**2814210000**
PVHYW-XXPXXX06W+15	WM4C -	WM4C +	Stripped part	1	**2814220000**
PVHYM-M-XXXX6W+15	MC4 -	WM4C+	MC4 -	1	**2877850000**
PVHYM+M+XXXX6W-15	MC4 +	WM4C-	MC4 +	1	**2877860000**
X-connection cable					
PVHXW-W-W+XX06W+15	WM4C -	WM4C +	WM4C +	1	**2814240000**
PVHXW+W+W-XX06W-15	WM4C +	WM4C -	WM4C -	1	**2814250000**
PVHXM-M-W+XX06M+15	MC4 -	MC4 +	WM4C +	1	**2814260000**
PVHXM+M+W-XX06M-15	MC4 +	MC4 -	WM4C -	1	**2814270000**
PVHXW-W-PXXX06W+15	WM4C -	WM4C +	Stripped part	1	**2814280000**
PVHXW+W+PXXX06M-15	WM4C +	M4C -	Stripped part	1	**2814290000**

04 AC SPD-Box

Protect charging stations and PV systems against overvoltage

Protect your string inverter or your wallbox from overvoltages on the AC side of your installation. Especially for cable lengths over 10 metres, a compact and flexible solution is required by standards.

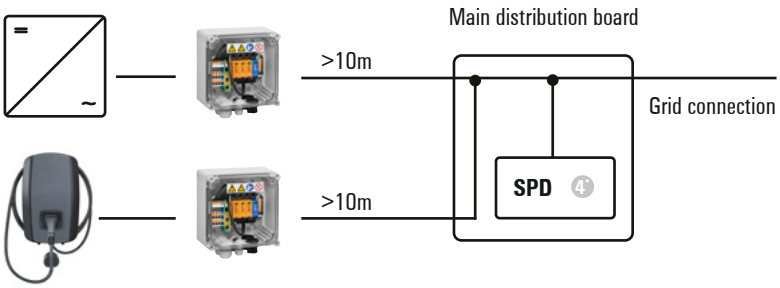
Weidmüller offers a quick and easy to install solution to protect the system components. In addition to protection against overvoltages on the AC side, data lines are also protected against harmful voltages.

For more information, visit our website:
www.weidmueller.com/ac-spd-box

Suitable for commercial and residential buildings

Ready-to-install AC surge protection

The AC SPD box is a ready-to-install solution to reliably protect both charging stations from 11-22kW and PV systems against surges. The solution is equipped with Type II AC surge protection and additional surge protection for data cables (RJ45 connection). The compact design with IP65 and a temperature range of -25 to 50 °C is very suitable for outdoor use.



*see selection table on page 6

Your advantages

- Quick installation thanks to Push-In technology
- Use for both charging stations and PV systems
- Protection of the data lines against overvoltages

AC SPD-Box

Type	Inputs	Outputs	Max. cable diameter	Overvoltage protection	Connection	Order No.
PVC AC 1I 1O SPD2R + RJ45 04	1	1	6mm²	Type II	Cable glands	8000104168

05 PV Accessories
For the easy system installation

PV Tools

When installing a photovoltaic system, the installer depends on reliable and smooth-running tools. Weidmüller offers a range of professional tools for this purpose.

Stripping tools

Type	Cutting	Stripping	Qty.	Order No.
MULTI-STRIPAX PV	2,5, 4.0 and 6 mm²	2,5, 4.0 and 6 mm²	1	1190490000

Crimping tools

Type	Crimping	Description	Qty.	Order No.
CTF PV WM4	2,5...6 mm²	Crimping tool for Weidmüller photovoltaic connector WM4 C and identical connectors	1	1222870000

Cutting tools

Type	Maximum cutting performance	Copper finely stranded	Aluminium stranded	Qty.	Order No.
KT 12	25 mm²	35 mm²	16 mm²	1	9002660000

Multitool

Type	Description	Qty.	Order No.
MULTITOOL PV SET	Screw PV-Stick; Check cable diameter for PV-Stick; Put on smart lock for PV-Stick; Open cover for PV Next; Replace SPD cartridge for PV Next; Operate PUSH IN connection; Open control cabinet	1	2771530000

PV Connectors

PV-Stick with SNAP IN connection

No crimping tool, no lost time, no extra effort - the unique PV-Stick uses tried-and-tested SNAP IN technology. The fastest, easiest and safest way to wire up photovoltaic plants - literally in no time.

WM4 C with crimp connection

Outstanding quality and ease of handling due to modern crimp connection.
The WM4 C is suitable for automated assembly as well as for manual installation in the field.

PV-Stick - Photovoltaic connectors - SNAP IN connection

Type	Rated voltage (IEC) Rated current	Connection cross-section min. / max.	Continuous operating temperature min. / max.	Qty.	Order No.
Socket					
PV-STICK+ Qty.10	1500 V DC / 30 A	4 / 6 mm²	-40 °C...+85 °C	10	**1303450000**
PV-STICK+ Qty.50	1500 V DC / 30 A	4 / 6 mm²	-40 °C...+85 °C	50	**1303460000**
PV-STICK+ Qty.200	1500 V DC / 30 A	4 / 6 mm²	-40 °C...+85 °C	200	**1303470000**
Pin					
PV-STICK- Qty.10	1500 V DC / 30 A	4 / 6 mm²	-40 °C...+85 °C	10	**1303490000**
PV-STICK- Qty.50	1500 V DC / 30 A	4 / 6 mm²	-40 °C...+85 °C	50	**1303500000**
PV-STICK- Qty.200	1500 V DC / 30 A	4 / 6 mm²	-40 °C...+85 °C	200	**1303510000**
PV-Stick Set					
PV-STICK SET	1500 V DC / 30 A	4 / 6 mm²	-40 °C...+85 °C	1	**1422030000**



WM4 C - Crimp connectors

Type	Rated voltage / current	Conductor cross-section	Connnection	Qty.	Order No.
Box connectors - housing					
SFGH BOX WM4 C BT	1500 V DC (IEC) / 35 A	4 / 6 mm²	M 12 housing cable gland	100	**1530640000**
BUGH BOX WM4 C BT	1500 V DC (IEC) / 35 A	4 / 6 mm²	M 12 housing cable gland	100	**1530630000**
Field connector housing					
SFGH WM4 C BT	1500 V DC (IEC) / 35 A	4 / 6 mm²	M 16 housing cable gland	100	**1530700000**
BUGH WM4 C BT	1500 V DC (IEC) / 35 A	4 / 6 mm²	M 16 housing cable gland	100	**1530690000**
Crimp contacts					
BUKO WM4 C BT	Socket contact	4 and 6 mm² cables	Loose goods for crimping tools	100	**1530670000**
BUKO WM4 C RL	Socket contact	4 and 6 mm² cables	Reel packaged goods for automated crimping	1500	**1530770000**
SFKO WM4 C BT	Pin contact	4 and 6 mm² cables	Loose goods for crimping tools	100	**1530680000**
SFKO WM4 C RL	Pin contact	4 and 6 mm² cables	Reel packaged goods for automated crimping	1500	**1530780000**



Accessories

Type	Description	Qty.	Order No.
SAFETY-CLIP WM4 Qty.10	Locking clip for PV-Stick prevents opening without tools	10	**1328150000**
VSSO WM4 C	Sealing cap for protecting PV connectors that are not mated (all connectors)	100	**1254870000**

PV AC output connectors (suitable for Huawei / Sungrow / SMA)

Type	Description	Rated voltage / current	Clamping range min. / max.	Qty.	Order No.
PV BSS VAPM 5P M	Box coupling 5 pole	600 V AC / 60 A	0.2mm²- 16mm²	1	**2920100000**
PV PS VAPM 5P F	Field connector 5 pole	600 V AC / 60 A	0.2mm²- 16mm²	1	**2920110000**
PV BSS DL	Cover	-	-	1	**2920120000**
PV PS ULTA	Lock	-	-	1	**2920130000**

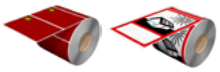
PV Labels and Markers

PV Cable marker

Type	Design	Colour	Kabelbinder Loch	Qty	Order No.
SFX-VT 9/24 MM GE	9 x 24 mm cable marker, with 1 cable tie punch hole, UV-resistant	●	6 x 1.9 mm	1000	**2621460000**
SFX-VT 9/24 MM WS	9 x 24 mm cable marker, with 1 cable tie punch hole, UV-resistant	○	6 x 1.9 mm	1000	**2621470000**
SFX-VT 9/24 MM RT	9 x 24 mm cable marker, with 1 cable tie punch hole, UV-resistant	●	6 x 1.9 mm	1000	**2799310000**
SFX-VT 9/24 MM BL	9 x 24 mm cable marker, with 1 cable tie punch hole, UV-resistant	●	6 x 1.9 mm	1000	**2799320000**
SFX-VT 11/60 MM GE	11 x 60 mm cable marker, with 2 cable tie punch hole, UV-resistant	●	5.5 x 2mm	1000	**2621440000**
SFX-VT 11/60 MM WS	11 x 60 mm cable marker, with 2 cable tie punch hole, UV-resistant	○	5.5 x 2 mm	1000	**2621450000**
SFX-VT 11/60 MM RT	11 x 60 mm cable marker, with 2 cable tie punch hole, UV-resistant	●	5.5 x 2 mm	1000	**2900960000**
SFX-VT 11/60 MM BL	11 x 60 mm cable marker, with 2 cable tie punch hole, UV-resistant	●	5.5 x 2 mm	1000	**2900970000**
Ribbon: 2448880000 black					

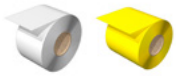
PV Device marker

Type	Design	Colour	Qty	Order No.
THM PV 89/60 B/DR RT	Device marker, 60 x 89 mm	●	450	**2817450000**
THM PV 90/140 WBC	Battery warning, pre-printed warning label	◐	200	**2986860000**
THM PV 90/140 WFF	Fire brigade warning, pre-printed warning label	◐	200	**2986850000**
Ribbon: 2005070000 black, 2918800000 white				



Device markers endless

Type	Design	Colour	Qty	Order No.
THM PV EL 30 SI 30M	Device markers, 30 mm	●	1 roll, 30 m	**2969100000**
THM PV EL 30 WS 30M	Device markers, 30 mm	○	1 roll, 30 m	**2969070000**
THM PV EL 60 SI 30M	Device markers, 60 mm	●	1 roll, 30 m	**2969090000**
THM PV EL 60 WS 30M	Device markers, 60 mm	○	1 roll, 30 m	**2969060000**
THM PV EL 90 GE 30M	Device markers, 90 mm	●	1 roll, 30 m	**2817440000**
THM PV EL 90 RT 30M	Device markers, 90 mm	●	1 roll, 30 m	**2817430000**
THM PV EL 90 SI 30M	Device markers, 90 mm	●	1 roll, 30 m	**2969080000**
THM PV EL 90 WS 30M	Device markers, 90 mm	○	1 roll, 30 m	**2969050000**
Ribbon: 2005070000 black, 2918800000 white				



Transparent labels

Type	Design	Colour	Qty	Order No.
THM PV 15/45 TR	PV-Device markers, 14.6 x 44.1 mm	transparent	450	**2969150000**
THM PV 18/9.5 TR	PV-Device markers, 17.6 x 8.6 mm	transparent	450	**2969180000**
THM PV 27/12.5 TR	PV-Device markers, 26.6 x 12.1 mm	transparent	450	**2969170000**
THM PV 27/18 TR	PV-Device markers, 26.6 x 17.3 mm	transparent	450	**2969160000**
THM PV 30/60 TR	PV-Device markers, 29.6 x 59.6 mm	transparent	450	**2969130000**
THM PV 85/54 TR	PV-Device markers, 84.6 x 53.6 mm	transparent	450	**2969120000**
Ribbon: 2005070000 black				

THM MultiMark -Thermal transfer printer

Type	Design	Qty	Order No.
THM MULTIMARK	Marking systems, thermal transfer printer, thermal transfer, 300 DPI, MultiMark, shrink sleeves, label rolls	1	**2599430000**
THM MMP CUTTER	Cutting kit – for automatic cutting of continuous markers	1	**1331600000**
For printing MultiMark markers, shrink sleeves, label rolls, etc.			

PV warning label

Type	Design	Qty	Order No.
TABPACK PV 90/100 WFF	Fire brigade warning, pre-printed warning label, bag	20	**2817460000**
TABPACK PV 90/100 WBC	Battery warning, pre-printed warning label, bag	20	**2817470000**

Cable tie

Type	Design	Strength in mm	Qty	Order No.
CB-UVR 98/2,5 BK	Cable tie, 2.5 x 98 mm, polyamide 66, 80 N	1	100	**2659310000**
CB-UVR 140/3,5 BK	Cable tie, 3.5 x 140 mm, polyamide 66, 130 N	1.1	100	**2659320000**
CB-UVR 200/3,5 BK	Cable tie, 3.5 x 200 mm, polyamide 66, 130 N	1.2	100	**2659330000**
CB-UVR 200/4,8 BK	Cable tie, 4.8 x 200 mm, polyamide 66, 220 N	1.35	100	**2659340000**
CB-UVR 290/4,5 BK	Cable tie, 4.5 x 290 mm, polyamide 66, 220 N	1.4	100	**2659350000**
CB-UVR 365/7,5 BK	Cable tie, 7.5 x 365 mm, polyamide 66, 540 N	1.8	100	**2659360000**

PV Fuses

The gPV cylindrical fuse cartridges are designed to provide compact, safe and economical protection of photovoltaic modules. They protect against both overloads and short circuits.

When are fuses required?
According to IEC 62548, fuses are required if the reverse current of the module is exceeded. This is calculated as follows:

String current x 1.25 x (number of strings -1) = Larger max. reverse current, then fuse holder for + and -.

Which size should I use?
Multiply the ISC value of the module by 1.5.

Example:
8.99 A x 1.5 = 13.485 rounded up to 15 A fuse cartridges

10x38 gPV fuse cartridges with silver-plated contacts for PV applications

Type	Voltage / Current	Power loss	Switching capacity	Qty.	Order No.
FUSE 10X38 1A 1000 VDC GPV	1000 V DC / 1 A	2.2 W	30 kA	10	**2783160000**
FUSE 10X38 2A 1000 VDC GPV	1000 V DC / 2 A	2.4 W	30 kA	10	**2783170000**
FUSE 10X38 3A 1000 VDC GPV	1000 V DC / 3 A	2.65 W	30 kA	10	**2783180000**
FUSE 10X38 4A 1000 VDC GPV	1000 V DC / 4 A	2.7 W	30 kA	10	**2783190000**
FUSE 10X38 5A 1000 VDC GPV	1000 V DC / 5 A	0.76 W	30 kA	10	**2783200000**
FUSE 10X38 6A 1000 VDC GPV	1000 V DC / 6 A	3.2 W	30 kA	10	**2783210000**
FUSE 10X38 8A 1000 VDC GPV	1000 V DC / 8 A	1.45 W	30 kA	10	**2783220000**
FUSE 10X38 10A 1000 VDC GPV	1000 V DC / 10 A	1.66 W	30 kA	10	**2783230000**
FUSE 10X38 12A 1000 VDC GPV	1000 V DC / 12 A	1.57 W	30 kA	10	**2783240000**
FUSE 10X38 15A 1000 VDC GPV S	1000 V DC / 15 A	1.65 W	33 kA	10	**2827970000**
FUSE 10X38 16A 1000 VDC GPV S	1000 V DC / 16 A	1.84 W	10 kA	10	**2837520000**
FUSE 10X38 20A 1000 VDC GPV S	1000 V DC / 20 A	2 W	10 kA	10	**2827980000**
FUSE 10X38 25A 1000 VDC GPV S	1000 V DC / 25 A	3,5 W	10 kA	10	**2827990000**
FUSE 10X38 30A 1000 VDC GPV S	1000 V DC / 30 A	3,8 W	10 kA	10	**2828000000**

PV Lightning and Surge Protection

PV systems are directly exposed to environmental influences because they are always installed in locations unprotected from the weather. For this reason, the probability of lightning strikes and resulting overvoltage is high. The components of unprotected PV systems repeatedly suffer major damage.

The right combiner box for your inverter type in just three steps. Find out more on p. 6.

DC surge arrester

DC protection for 600 V applications

Type	Type	Version	MPP	Discharge current I_{imp} / I_{max}	Qty.	Order No.
VPU PV I+II 3 600 E	I + II	without remote signalling contact	1 MPP	6,25 kA / 40 kA	1	2857030000
VPU PV I+II 3 R 600 E	I + II	with remote signalling contact	1 MPP	6,25 kA / 40 kA	1	2857040000
VPU PV II 3 600	II	without remote signalling contact	1 MPP	- / 50 kA	1	2857060000
VPU PV II 3 R 600	II	with remote signalling contact	1 MPP	- / 50 kA	1	2857070000

DC protection for 1000 V applications

Type	Type	Version	MPP	Discharge current I_{imp} / I_{max}	Qty.	Order No.
VPU PV I+II 3 1000	I + II	without remote signalling contact	1 MPP	6,25 kA / 40 kA	1	2530610000
VPU PV I+II 3 R 1000	I + II	with remote signalling contact	1 MPP	6,25 kA / 40 kA	1	2530620000
VPU PV I+II 5 1000	I + II	without remote signalling contact	2 MPP	5 kA / 40 kA	1	2856440000
VPU PV I+II 5 R 1000	I + II	with remote signalling contact	2 MPP	5 kA / 40 kA	1	2856490000
VPU PV II 3 1000	II	without remote signalling contact	1 MPP	- / 40 kA	1	2530550000
VPU PV II 3 R 1000	II	with remote signalling contact	1 MPP	- / 40 kA	1	2530180000
VPU PV II 5 1000	II	without remote signalling contact	2 MPP	- / 40 kA	1	2856500000
VPU PV II 5 R 1000	II	with remote signalling contact	2 MPP	- / 40 kA	1	2857020000

DC protection for 1500 V applications

Type	Type	Version	MPP	Discharge current I_{imp} / I_{max}	Qty.	Order No.
VPU PV I+II 3 1500	I + II	without remote signalling contact	1 MPP	5 kA / 30 kA	1	2530580000
VPU PV I+II 3 R 1500	I + II	with remote signalling contact	1 MPP	5 kA / 30 kA	1	2530590000
VPU PV II 3 1500	II	without remote signalling contact	1 MPP	- / 30 kA	1	2530640000
VPU PV II 3 R 1500	II	with remote signalling contact	1 MPP	- / 30 kA	1	2530650000

Arresters for printed circuit boards

Type	Type	Version	Rated voltage U_c	Discharge current I_{imp} / I_{max}	Qty.	Order No.
VPCB PV I+II R 600 E	I + II	with remote signalling contact	600 V	6,25 kA / 40 kA	1	2857100000
VPCB PV I+II 1000	I + II	without remote signalling contact	1100 V	6,25 kA / 40 kA	1	2665740000
VPCB PV I+II M 1000	I + II	without remote signalling contact	1100 V	6,25 kA / 40 kA	1	2665750000
VPCB PV I+II R 1000	I + II	with remote signalling contact	1100 V	6,25 kA / 40 kA	1	2665760000
VPCB PV I+II R M 1000	I + II	with remote signalling contact	1100 V	6,25 kA / 40 kA	1	2665770000
VPCB PV II R 600	II	with remote signalling contact	600 V	- / 40 kA	1	2857090000
VPCB PV II 1000	II	without remote signalling contact	1100 V	- / 40 kA	1	2665680000
VPCB PV II R 1000	II	with remote signalling contact	1100 V	- / 40 kA	1	2665690000

AC surge arresters

AC protection Type I/II for 400 V applications

Type	Continuous current / lightning impulse current (I_{imp})	Version	Network	Qty.	Order No.
Type I arrester - pre-counter range - 275 V AC / 25 kA - S-line					
VPU AC I 3 275/25 LCF S	275 V AC / 25 kA	without remote signalling contact, leakage current free	TN-C	1	**2726740000**
VPU AC I 3 R 275/25 LCF S	275 V AC / 25 kA	with remote signalling contact, leakage current free	TN-C	1	**2726750000**
VPU AC I 3+1 275/25 LCF S 2PE	275 V AC / 25 kA	without remote signalling contact, leakage current free	TN-C-S, TN-S, TT	1	**2726760000**
VPU AC I 3+1 R 275/25 LCF S 2PE	275 V AC / 25 kA	with remote signalling contact, leakage current free	TN-C-S, TN-S, TT	1	**2726770000**
VPU AC I 4 275/25 LCF S	275 V AC / 25 kA	without remote signalling contact, leakage current free	TN-C-S, TN-S	1	**2726780000**
VPU AC I 4 R 275/25 LCF S	275 V AC / 25 kA	with remote signalling contact, leakage current free	TN-C-S, TN-S	1	**2726790000**
Type I arrester - pre-counter range - 300 V AC / 12.5 kA					
VPU AC I 3 300/12.5 LCF	300 V AC / 12.5 kA	without remote signalling contact, leakage current free	TN-C	1	**2636970000**
VPU AC I 3 R 300/12.5 LCF	300 V AC / 12.5 kA	with remote signalling contact, leakage current free	TN-C	1	**2636980000**
VPU AC I 3+1 300/12.5 LCF	300 V AC / 12.5 kA	without remote signalling contact, leakage current free	TN-C-S, TN-S, TT	1	**2636910000**
VPU AC I 3+1 R 300/12.5 LCF	300 V AC / 12.5 kA	with remote signalling contact, leakage current free	TN-C-S, TN-S, TT	1	**2636920000**
Type I arrester - post-counter range - 300 V AC / 12.5 kA					
VPU AC I 3 300/12.5	300 V AC / 12.5 kA	without remote signalling contact	TN-C	1	**2591440000**
VPU AC I 3 R 300/12.5	300 V AC / 12.5 kA	with remote signalling contact	TN-C	1	**2591450000**
VPU AC I 3+1 300/12.5	300 V AC / 12.5 kA	without remote signalling contact	TN-C-S, TT, IT with N, IT without N	1	**2591460000**
VPU AC I 3+1 R 300/12.5	300 V AC / 12.5 kA	with remote signalling contact	TN-C-S, TT, IT with N, IT without N	1	**2591470000**
VPU AC I 4 300/12.5	300 V AC / 12.5 kA	without remote signalling contact	TN-C-S, TN-S	1	**2591420000**
VPU AC I 4 R 300/12.5	300 V AC / 12.5 kA	with remote signalling contact	TN-C-S, TN-S	1	**2591430000**

AC protection Type I/II for 400 V / 40 mm busbar

Type	Continuous current / lightning impulse current (I_{imp})	Version	Network	Qty.	Order No.
12.5 kA - without phase tap					
VPU ZPA S I 3 300/12,5	300 V AC / 12.5 kA	without remote signalling contact, leakage current free	TN-C	1	**2830870000**
VPU ZPA S I 3+1 300/12,5	300 V AC / 12.5 kA	without remote signalling contact, leakage current free	TN-S, TT, IT	1	**2830900000**
12.5 kA - with phase tap for L1					
VPU ZPA S I 3+1 RA 300/12,5	300 V AC / 12.5 kA	with remote signalling contact, leakage current free	TN-S, TT, IT	1	**2830920000**
7.5 kA - without phase tap					
VPU ZPA S I 3 300/7,5	300 V AC / 7.5 kA	without remote signalling contact, leakage current free	TN-C	1	**2830930000**
VPU ZPA S I 3+1 300/7,5	300 V AC / 7.5 kA	without remote signalling contact, leakage current free	TN-S, TT, IT	1	**2830960000**
7.5 kA - with phase tap for L1					
VPU ZPA S I 3+1 RA 300/7,5	300 V AC / 7.5 kA	with remote signalling contact, leakage current free	TN-S, TT, IT	1	**2830980000**

AC protection Type II for 400 V applications

Type	Continuous current / discharge current (I_{max})	Version	Network	Qty.	Order No.
Type I arrester - post-counter range - 300 V AC / 12.5 kA					
VPU AC II 3 300/50	300 V AC / 50 kA	without remote signalling contact	TN-C	1	**2591160000**
VPU AC II 3 R 300/50	300 V AC / 50 kA	with remote signalling contact	TN-C	1	**2591170000**
VPU AC II 3+1 300/50	300 V AC / 50 kA	without remote signalling contact	TN-C-S, TN-S, TT, IT	1	**2591080000**
VPU AC II 3+1 R 300/50	300 V AC / 50 kA	with remote signalling contact	TN-C-S, TN-S, TT, IT	1	**2591090000**
VPU AC II 4 300/50	300 V AC / 50 kA	without remote signalling contact	TN-C-S, TN-S	1	**2591140000**
VPU AC II 4 R 300/50	300 V AC / 50 kA	with remote signalling contact	TN-C-S, TN-S	1	**2591150000**
Type II arrester with integrated fuse - post-counter range - 300 V AC / 50 kA					
VPU AC II F 3 300/40	300 V AC / 50 kA	without remote signalling contact	TN-C	1	**2827600000**
VPU AC II F 3 R 300/40	300 V AC / 50 kA	with remote signalling contact	TN-C	1	**2807410000**
VPU AC II F 3+1 300/40	300 V AC / 50 kA	without remote signalling contact	TN-C-S, TN-S, TT, IT	1	**2827630000**
VPU AC II F 3+1 R 300/40	300 V AC / 50 kA	with remote signalling contact	TN-C-S, TN-S, TT, IT	1	**2807440000**
VPU AC II F 4 300/40	300 V AC / 50 kA	without remote signalling contact	TN-C-S, TN-S	1	**2827610000**
VPU AC II F 4 R 300/40	300 V AC / 50 kA	with remote signalling contact	TN-C-S, TN-S	1	**2807420000**

AC protection Type I/II for 800 V applications

Type	Continuous current / discharge current (I_{max})	Version	Network	Qty.	Order No.
VPU AC I 3+MOV R 950/12.5	950 V AC / 50 kA	with remote signalling contact	TN-C, IT without N	1	**2845570000**

V-DATA - Data protection arrester

Type	Suitable for:	Connection	Qty.	Order No.
VDATA CAT6	Cat. 5 (up to 100 MHz) and Cat. 6 to 250 MHz (Class E), PoE (according to IEEE 802.3af) and PoE+ (according to IEEE 802.3at)	RJ45	1	**1348590000**

You can find more information about our accessories and other articles on our website:
www.weidmueller.com/pv-accessories

Emergency power box for Fronius Primo GEN24 Plus

Increasingly, homeowners want to be supplied with electricity from their own PV system even in the event of a power cut. The inverter manufacturer Fronius therefore offers the option of supplying consumers in the event of a power cut in its Primo GEN24 Plus product range. Weidmüller has developed the appropriate emergency power box to connect the necessary loads quickly and safely if required.

The Fronius Primo GEN24 Plus is connected to the emergency power box from Weidmüller. If there is a failure in the grid, this hybrid inverter recognises this condition and activates the connection to the emergency power box. Now residents can use various consumers such as a refrigerator or charging cables for mobile phones to this box.

It is possible to use the PV electricity from the roof directly or feed it into a battery. At the same time, the electricity from the battery can be used if no solar power is generated. This simple solution does not require a separate disconnection device after the grid connection point to be installed.

(A) 1 phase cable (B) Emergency power box (C) 1 phase cable with plug

Your advantages

- Suitable solution for the Primo GEN24 Plus
- Quick and easy installation
- Accessories already included

Emergency power box

Type	Connection cable	Electrical socket	Order No.
PVC AC NOTSTROMBOX TYPE F CEE 7/3	1 phase cable to connect to the string inveter	Type F CEE 7/3 Electrical socket, Schuko	**8000108185**
PVC AC NOTSTROMBOX TYPE 23	1 phase cable to connect to the string inveter	Type 23 Electrical socket	**8000101331**

You can find more information about our accessories and other articles on our website:
www.weidmueller.com/pv-accessories

FAQs – Frequently Asked Questions about the Installation

What are the special features of PV Next combiner boxes and how do I find the right variant?

For a PV system on the roof, a GAK approved in accordance with IEC 61439-2 is required to protect the system against overvoltage. The GAK PV Next also offers additional functions, such as the bundling of strings for reduced cabling effort. Depending on the inverter of your PV system, a suitable variant of the GAK is required. You can easily find the right variant using the selection guide on our website.

How do you protect PV installations against lightning strikes?

The overvoltage protection inside a PV combiner box (DC side of the installation) is one part of the lightning protection system (LPS) of a building and is mandatory according to EN 51643-32 in the EU since 2019. It is used to protect your PV system and provides additional overcurrent protection for the strings in the event of a module failure.

When are DC fuses mandatory to install?

Depending on the kind of photovoltaic installation, a combiner box with fuses is required. According to the IEC 62548:2016, fuses are mandatory if the maximum return current is higher than the return current of the module.

All technical details, our fact sheets and other frequently asked questions can be found on our website:
www.weidmueller.com/pv-FAQ

More tips for an easy PV installation:

Weidmüller – Your partner in Smart Industrial Connectivity

As experienced experts we support our customers and partners around the world with products, solutions and services in the industrial environment of power, signal and data. We are at home in their industries and markets and know the technological challenges of tomorrow. We are therefore continuously developing innovative, sustainable and useful solutions for their individual needs. Together we set standards in Smart Industrial Connectivity.

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